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Monday, December 15, 2003 3:13 PM STIC-ILL

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Ford, Vanessa

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Dermatol Surg. 1997 Dec;23(12):1221-2.

Lancet. 1997 Jan 25;349(9047):252.

Int J Dermatol. 1999 Sep;38(9):641-55.

Ann Pharmacother. 1998 Dec;32(12):1365-7.

Arch Dematol. 1998, 134:301-4.

Clin. Exp. Dermatol., 1996, 21:276-8.

J Am Acad Dermatol., 1998, 28:227-9.

Vanessa L. Ford **Biotechnology Patent Examiner**

Office: CM1 8A16 Mailbox: CM1 8E12 Phone: 703.308.4735 Art unit: 1645

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J Am Acad Dermatol., 1998, 28:227-9.

Vanessa L. Ford **Biotechnology Patent Examiner**

Office: CM1 8A16 Mailbox: CM1 8E12 Phone: 703.308.4735 Art unit: 1645

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Ann Pharmacother. 1998 Dec;32(12):1365-7.

Arch Dematol. 1998, 134:301-4.

Clin. Exp. Dermatol., 1996, 21:276-8.

J Am Acad Dermatol., 1998, 28:227-9.

Vanessa L. Ford

Biotechnology Patent Examiner

Office: CM1 8A16 Mailbox: CM1 8E12 Phone: 703.308.4735 Art unit: 1645

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To: Subject: FW: In re: 10018373 Please supply the following journal articles:

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From:

Ford, Vanessa

Sent:

Monday, December 15, 2003 3:06 PM

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STIC-Biotech/ChemLib

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In re: 10018373 Please supply the following journal articles:

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Lancet. 1997 Jan 25;349(9047):252.

Int J Dermatol. 1999 Sep;38(9):641-55.

Ann Pharmacother. 1998 Dec;32(12):1365-7.

Arch Dematol. 1998, 134:301-4.

Clin. Exp. Dermatol., 1996, 21:276-8.

J Am Acad Dermatol., 1998, 28:227-9.

Vanessa L. Ford

Biotechnology Patent Examiner

Office: CM1 8A16 Mailbox: CM1 8E12 Phone: 703.308.4735 Art unit:1645

From:

STIC-Biotech/ChemLib

Sent:

Monday, December 15, 2003 3:41 PM

To: Subject:

STIC-ILL FW: In re: 10018373 Journal articles

-----Original Message-----

From:

Ford, Vanessa

Sent:

Monday, December 15, 2003 3:37 PM

To:

STIC-Biotech/ChemLib

Subject:

In re: 10018373 Journal articles

Carruthers, A., et al., Improvements of tension-type headache when treating wrinkles with botulinum toxin A injections, Headache, Oct. 1999:39:662-665, XP-001031356.

Vanessa L. Ford Biotechnology Patent Examiner

Office: CM1 8DA16 Mailbox: CM1 8E12 Phone: 703.308.4735

Art Unit: 1645

12555500

WEST Search History

DATE: Monday, December 15, 2003

Set Name side by side	Query	Hit Count	Set Name result set
DB = USI	PT; PLUR=YES; OP=ADJ	T	
L16	L4 and 13	9	L16
L15	L14 and 19	26	L15
L14	torticollis	156	L14
L13	L12 and 19	62	L13
L12	dystonia	674	L12
L11	19 and cosmetic	31	L11
L10	L9 and 14	8	L10
L9	l6 and (pure or purified)	359	L9
L8	16 and 15	. 2	L8
L7	L6 and l4	8	L7
L6	11 and 12	537	L6
L5	wrinkling	8733	L5
L4	hyperhidrosis	63	L4
L3	neurotoxin	1786	L3
L2	toxin	18946	L2
L1	botulinum	1017	L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 13:52:00 ON 15 DEC 2003)

	FILE 'BIOS	IS, CABA, EMBASE, CAPLUS, LIFESCI, MEDLINE, SCISEARCH' ENTERED	
	AT 13:52:2	0 ON 15 DEC. 2003	
L1	20899	S BOTULINUM TOXIN	
L2	5306	S HYPERHIDROSIS	
L3	4575	S WRINKLING	
L4	668	S L1 AND L2	
L5	34	S L1 AND L3	
L6	1903422	S (PURE OR PURIFIED)	
L7	825	S L6 AND L1	
L8	2	S L7 AND L2	
L9	1	S L7 AND L3	
L10	509	S L4 AND TREAT?	
L11	266	DUP REM L10 (243 DUPLICATES REMOVED)	
L12	8	S L11 AND ANTIBODIES	
L13	8	DUP REM L12 (0 DUPLICATES REMOVED)	
T.14	21	DUP REM 15 (13 DUPLICATES REMOVED)	

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FILE 'BIOSIS, CABA, EMBASE, CAPLUS, LIFESCI, MEDLINE, SCISEARCH' ENTERED
     AT 13:52:20 ON 15 DEC 2003
          20899 S BOTULINUM TOXIN
L1
           5306 S HYPERHIDROSIS
L2
           4575 S WRINKLING
L3
            668 S L1 AND L2
L4
L5
             34 S L1 AND L3
L6
        1903422 S (PURE OR PURIFIED)
L7
            825 S L6 AND L1
L8
            2 S L7 AND L2
L9
             1 S L7 AND L3
            509 S L4 AND TREAT?
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L11
            266 DUP REM L10 (243 DUPLICATES REMOVED)
L12
            8 S L11 AND ANTIBODIES.
             8 DUP REM L12 (0 DUPLICATES REMOVED)
L13
L14
            21 DUP REM L5 (13 DUPLICATES REMOVED)
L15
             0 S L14 AND ANTIBODIES
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- 11 ANSWER 264 OF 266 BIOSIS COPYRIGHT 2003, BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 114
- AΒ The inhibitory action of botulinum toxin is not limited to the neuromuscular junction. The toxin also blocks the autonomic cholinergic fibres, including the sympathetic fibres to sweat glands. We have previously demonstrated that the toxin produces localized anhidrosis. To determine the dosage, pattern and duration of the anhidrotic effect of botulinum toxin and to test the efficacy of axillary injections, we further studied seven healthy volunteers. Two individuals had subcutaneous injections of botulinum toxin (20 mouse units, Dysport-Porton Products) in the dorsum of the hand. Five healthy volunteers had 15-50 U of botulinum toxin A (Botox) injected in one axilla. A circular area of complete anhidrosis on the dorsum of the hand was evident on day 2 and persisted for 11 months. By day 3, two of the axillae (injected with 50 U each) were totally dry and in one (injected with 30 U) the sweating was substantially reduced. The effect persisted · for 6-8 months before wearing off. No effect was appreciated in two axillae (injected with 15 and 20 U). No significant side-effects were encountered. Subcutaneous injections of botulinum toxin causes chemodenervation of the sweat glands. In normal individuals axillary sweating can be abolished by 50 U of botulinum toxin A (Botox). The results offer a possible novel treatment for severe cases of axillary hyperhidrosis.
- AN 1997:25001 BIOSIS
- DN PREV199799324204
- TI Botulinum toxin. A possible new treatment for axillary hyperhidrosis.
- AU Bushara, K. O. [Reprint author]; Park, D. M.; Jones, J. C. [Reprint author]; Schutta, H. S. [Reprint author]
- CS Dep. Neurol., Univ. Wis. Hosp. and Clin., 600 Highland Ave., Madison, WI 53792-5132, USA
- SO Clinical and Experimental Dermatology, (1996) Vol. 21, No. 4, pp. 276-278. CODEN: CEDEDE. ISSN: 0307-6938.
- DT Article
- LA English
- ED Entered STN: 15 Jan 1997

Last Updated on STN: 15 Jan 1997

L11 ANSWER 262 OF 266 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

AN 1997:430244 BIOSIS

DN PREV199799729447

TI Treatment of focal hyperhidrosis with botulinum toxin.

AU Naver, H.; Aquilonius, S.-M.

CS Dep. Neurol., Univ. Hosp., Uppsala, Sweden

SO Journal of the Neurological Sciences, (1997) Vol. 150, No. SUPPL., pp. S70-S71.

Meeting Info.: XVI World Congress of Neurology. Buenos Aires, Argentina. September 14-19, 1997.

CODEN: JNSCAG. ISSN: 0022-510X.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 8 Oct 1997
Last Updated on STN: 8 Oct 1997

- L11 ANSWER 261 OF 266 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 113
- AΒ Primary axillary and palmar hyperhidrosis are common conditions which give rise to functional and emotional problems and may disturb professional and social life. For severe cases, in which topical agents, systemic anticholinergic agents and iontophoresis have been unsuccessful, surgical treatment is used. The method of choice is currently transthoracic endoscopic sympathectomy (TES). Serious complications such as peroperative cardiac arrest, chylothorax and haemothorax are rare. Common side effects include compensatory hyperhidrosis, gustatory sweating and dry hands. A pilot study of focal chemical denervation of sweat glands with botulinum toxin A was performed. Intracutaneous injections of botulinum toxin A into seven palms and eleven axillae of seven patients effectively eliminated hyperhidrosis. The advantage of our method over surgical denervation is that only the hyperactive sweat glands are denervated. As a result, compensatory hyperhidrosis may be avoided and the risk of surgical complications is eliminated.
- AN 1998000078 EMBASE
- TI The treatment of focal hyperhidrosis with botulinum toxin.
- AU Naver H.; Aquilonius S.-M.
- CS H. Naver, Department of Neurology, Uppsala University, Akademiska Sjukhuset, 751 85 Uppsala, Sweden
- SO European Journal of Neurology, (1997) 4/SUPPL.2 (S75-S79).

Refs: 17

ISSN: 1351-5101 CODEN: EJNEFL

- CY United Kingdom
- DT Journal; Article
- FS 008 Neurology and Neurosurgery
 - 013 Dermatology and Venereology
 - 037 Drug Literature Index
 - 038 Adverse Reactions Titles
 - 052 Toxicology
- LA English
- SL English

- L11 ANSWER 259 OF 266 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- AN 1997:77717 BIOSIS
- DN PREV199799384420
- TI Botulinum toxin for palmar hyperhidrosis.
- AU Naumann, Markus; Flachenecker, Peter; Broecker, Eva-B. [Reprint author]; Toyka, Klaus V.; Reiners, Karlheinz
- CS Dep. Neurol. Dermatol., Julius-Maximillians-Univ., D-97080 Wuerzberg, Germany
- SO Lancet (North American Edition), (1997) Vol. 349, No. 9047, pp. 252. ISSN: 0099-5355.
- DT Article
- LA English
- ED Entered STN: 26 Feb 1997 Last Updated on STN: 26 Feb 1997

- L11 ANSWER 258 OF 266 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 112
- AΒ We performed a randomized double-blind study within-group comparison in 11 patients to study the effect of subcutaneous injections of botulinum. A toxin in focal hyperhidrosis of the palms. A total dose of 120 mU (mouse units) of botulinum A toxin (Dysport.RTM.) was injected into six different sites on one palm, whereas the other was injected with sterile saline. Objective quantification of sweat production was performed using digitized ninhydrin-stained sheets. Three weeks after treatment, the mean reduction of sweat production in the botulinum A toxintreated palms was 26% (P < 0.001), after 8 weeks 26% (P = 0.002) and after 13 weeks 31% (P < 0.001). Subjective assessment of sweat production by the patients using a visual analogue scale showed a 38% improvement in the botulinum A toxin-treated palms at 3 weeks (P = 0.002), 40% at 8 weeks (P = 0.002) and 38% at 13 weeks (P = 0.002). Neither the objective measurement nor the subjective rating showed a statistically significant reduction of sweating in the placebotreated palms. Three patients reported reversible minor weakness of powerful handgrip after injection at the toxin-treated site, lasting between 2 and 5 weeks.
- AN 97111991 EMBASE
- DN 1997111991
- TI Double-blind trial of botulinum A toxin for the **treatment** of focal **hyperhidrosis** of the palms.
- AU Schnider P.; Binder M.; Auff E.; Kittler H.; Berger T.; Wolff K.
- CS P. Schnider, Div. of Neurological Rehabilitation, Department of Neurology, University Clinic, Wahringergurtel 18-20, 1090 Vienna, Austria
- SO British Journal of Dermatology, (1997) 136/4 (548-552).

Refs: 21

ISSN: 0007-0963 CODEN: BJDEAZ

- CY United Kingdom
- DT Journal; Article
- FS 013 Dermatology and Venereology
 - 037 Drug Literature Index 038 Adverse Reactions Titles
- LA English
- SL English

- L11 ANSWER 255 OF 266 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
- AB Hyperhidrosis is a source of embarrassment and can be a severe social problem. It may also signal a cutaneous disorder or other underlying disease. Ruling out secondary causes, paying attention to aggravating factors and giving simple topical treatments, such as aluminium chloride hexadhyrate or iontophoresis, will provide relief for most patients. This article describes the clinical features of the various forms of hyperhidrosis, discusses the simple topical treatments available, and outlines the options for the more stubborn cases.
- AN 1998388742 EMBASE
- TI Excessive sweating: Causes and what to do about it.
- AU Isaacs F.
- CS Dr. F. Isaacs, St George and Sydney Hospitals, Bondi Junction, NSW, Australia
- SO Modern Medicine of Australia, (1998) 41/11 (30-34). Refs: 6
 ISSN: 1030-3782 CODEN: MMAUB7
- CY Australia
- DT Journal; General Review
- FS 013 Dermatology and Venereology 037 Drug Literature Index
- LA English
- SL English

- L11 ANSWER 251 OF 266 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 108
- AΒ Background: Severe palmar hyperhidrosis is a chronic disease, resistant to conventional therapy. Botulinum toxin inhibits sweat production by blocking release of acetylcholine from presynaptic membranes. Objective: Our purpose was to evaluate the shortand long-term effectiveness of botulinum toxin therapy in treatment of palmar hyperhidrosis. Methods: Four patients with severe palmar hyperhidrosis were treated with subepidermal injections of botulinum toxin. Fifty injections, 2 mouse units each, were used in each palm. Regional nerve blocks of the median and ulnar nerves were performed before the procedure. Patients were observed for 12 months after treatment Results: Botulinum toxin injections significantly reduced sweat production in the treated areas of the palms. Anhidrosis lasted for 12 months in one patient, 7 months in two patients, and 4 months in one patient. Mild weakness of the thumb lasting 3 weeks occurred in one patient. No other side effects were observed. Conclusion: Botulinum toxin provides an effective, safe, and long-lasting alternative therapeutic modality for treatment of severe palmar hyperhidrosis. Additional studies are needed for optimization of the technique.
- AN 1998:170771 BIOSIS
- DN PREV199800170771
- TI Botulinum toxin therapy for palmar hyperhidrosis.
- AU Shelley, W. B. [Reprint author]; Talanin, N. Y.; Shelley, E. D.
- CS Div. Dermatol., Dep. Med., Med. Coll. Ohio, P.O. Box 10008, Toledo, OH 43699-0008, USA
- SO Journal of the American Academy of Dermatology, (Feb., 1998) Vol. 38, No. 2 PART 1, pp. 227-229. print. ISSN: 0190-9622.
- DT Article
- LA English
- ED Entered STN: 6 Apr 1998

Last Updated on STN: 6 Apr 1998

- L11 ANSWER 242 OF 266 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
- AN 1998380322 EMBASE
- TI Follow-up of patients with axillary hyperhidrosis after botulinum toxin injection [9].
- AU Heckmann M.; Schaller M.
- CS Dr. M. Heckmann, Department of Dermatology, Ludwig-Maximilian University, Frauenlobstrasse 9-11, 80337 Munich, Germany
- SO Archives of Dermatology, (1998) 134/10 (1298-1299).
 Refs: 5
 ISSN: 0003-987X CODEN: ARDEAC
- CY United States
- DT Journal; Letter
- FS 013 Dermatology and Venereology 037 Drug Literature Index
- LA English

L14 ANSWER 17 OF 21 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN

Despite advances in techniques, aesthetic surgeons must realize that not every patient requires a complete forehead rejuvenation. This article discusses the contemporary armamentarium for forehead rejuvenation. Injection of botulinum toxin for glabella furrows is minimally invasive but only temporarily effective. Fat injection and fat grafts are useful for patients with a limited number of wrinkles and frown lines. Subcutaneous brow elevation provides direct correction of the forehead wrinkling by dividing the subcutaneous septae responsible for the furrows. Endoscopic techniques facilitate forehead rejuvenation with less morbidity and greater patient acceptance. Detailed descriptions of the spectrum of surgical options for forehead rejuvenation are included.

AN 97:366357 SCISEARCH

GA The Genuine Article (R) Number: WX597

TI Rejuvenation of the upper face - A logical gamut of surgical options

AU Michelow B J (Reprint); Guyuron B

CS 29017 CEDAR RD, LYNDHURST, OH 44124 (Reprint); CASE WESTERN RESERVE UNIV, SCH MED, DEPT SURG, CLEVELAND, OH 44106

CYA USA

SO CLINICS IN PLASTIC SURGERY, (APR 1997) Vol. 24, No. 2, pp. 199-&. Publisher: W B SAUNDERS CO, INDEPENDENCE SQUARE WEST CURTIS CENTER, STE 300, PHILADELPHIA, PA 19106-3399. ISSN: 0094-1298.

DT Article; Journal

FS CLIN

LA English

REC Reference Count: 20

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

- L14 ANSWER 18 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 5
- Objective: This study was conducted to evaluate the cosmetic use of AΒ botulinum toxin type A (Botox), which blocks the release of acetylcholine at the presynaptic neuromuscular junction leading to an irreversible, but temporary chemical denervation muscular paralysis and weakness. This produces a significant cosmetic improvement of wrinkling in the upper face due to hyperfunctional animation. Method: A prospective clinical study representing our experience with this new technique is presented. Patient selection and evaluation, classification of animation lines, techniques, results and complications are discussed. In a 15-month period, 23 patients with seven anatomic sites were injected. Twenty-three patients had the lateral aspect and the inferior aspect of their squint lines injected, and 26 patients had their glabellar frownlines injected. Results: Significant improvement occurred to the average depth and length of the glabellar frownlines. The subjective improvement by the patients was also significant. Regarding the crow's feet, the lateral canthal lines showed more improvement than the inferior lateral canthal lines because the latter has a greater component of zygomaticus major and minor muscle, which contributes to the inferior lateral squint line. Conclusion: Botox is a safe, easy-to-use, effective modality for the temporary elimination of hyperfunctioning upper-facial muscles.
- AN 1997:215225 BIOSIS
- DN PREV199799521729
- TI Cosmetic upper-facial rejuvenation with botulinum.
- AU Ellis, David A. F. [Reprint author]; Tan, Andre K. W.
- CS Toronto Centre Facial Cosmetic Surg., 167 Sheppard Ave. West, Toronto, ON M2N 1M9, Canada
- SO Journal of Otolaryngology, (1997) Vol. 26, No. 2, pp. 92-96. ISSN: 0381-6605.
- DT Article
- LA English
- ED Entered STN: 22 May 1997
 - Last Updated on STN: 22 May 1997

- L14 ANSWER 19 OF 21 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 6
- AΒ Purpose: External photography and subjective response were used to evaluate the use of botulinum A toxin to diminish glabellar kinetic folds. Methods: Eleven patients with glabellar folds and midline forehead wrinkling received one to four injections of 0.1 ml of 100 U/1 ml botulinum A toxin. The injections were given into the procerus or corrugator muscles or both. The number of injections corresponded to the wrinkle lines in each patient. The patients were examined and photographed just before the injections and at 7 to 10 days after the injections. Treatment efficacy was judged by photographic evaluation and by the patient's subjective evaluation of the effect of the treatment. Results: Photographic evaluation showed objective improvement in the glabellar wrinkling in 6 of 11 patients in relaxed facial position and in all 11 patients during contraction of the periocular muscles. Ten of the 11 patients reported satisfaction with their cosmetic results and indicated that they would choose to have the procedure done again. Conclusions: The results of this study suggest that botulinum A toxin is a safe and effective treatment for glabellar folds.
- AN 96119890 EMBASE
- DN 1996119890
- TI The use of botulinum A toxin to ameliorate facial kinetic frown lines.
- AU Foster J.A.; Barnhorst D.; Papay F.; Phaik Mae Oh; Wulc A.E.
- CS Cleveland Clinic Foundation, 9500 Euclid Ave-A31, Cleveland, OH 44195, United States
- SO Ophthalmology, (1996) 103/4 (618-622). ISSN: 0161-6420 CODEN: OPHTDG
- CY United States
- DT Journal; Article
- FS 011 Otorhinolaryngology
 - 012 Ophthalmology
 - 013 Dermatology and Venereology
 - 037 Drug Literature Index
- LA English
- SL English

L14 ANSWER 20 OF 21 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. ON STN DUPLICATE 7

Previous work on patients with muscular dystonia has shown that small AΒ intramuscular doses of botulinum toxin A eliminated hyperkinetic facial lines for approximately 6 months. The purpose of this study was to determine the efficacy of botulinum toxin A injections in eliminating facial wrinkles in aesthetic surgery patients who do not have muscular dystonia. Eleven healthy subjects were studied in a double-blind fashion. On both sides of the face, 0.2 cc of either normal saline or botulinum toxin A was injected into the forehead or into the periorbital wrinkles (crow's feet). Documentation of results was made by photographs taken of the patients during repose and during facial animation before and after injection. Assessment of facial wrinkles was done from a grading system in which the patient and the facial plastic surgeon were asked to judge the severity of the wrinkles on a scale from 0 to 3, with 0 reflecting no facial wrinkles and 3 reflecting severe facial wrinkling. Nine of 11 subjects injected with botulinum toxin A noted a significant improvement in the severity of their facial wrinkles in comparison with the side of the face injected with saline, with a rating improvement of 2 points. Two of 11 subjects noted a moderate improvement, with a rating improvement of 1 point. No patient injected with saline reported an improvement in the severity of the facial wrinkles on the control side. There were no serious complications. Botulinum toxin A is an efficacious method of nonsurgically eliminating facial wrinkles and may play a role in the cosmetic enhancement of the aging face.

AN 94240707 EMBASE

DN 1994240707

TI Botulinum toxin A for hyperkinetic facial lines: Results of a double-blind, placebo-controlled study.

- AU Keen M.; Blitzer A.; Aviv J.; Binder W.; Prystowsky J.; Smith H.; Brin M.
- CS Atchley Pavilion, 161 Fort Washington Avenue, New York, NY 10032, United States
- SO Plastic and Reconstructive Surgery, (1994) 94/1 (94-99). ISSN: 0032-1052 CODEN: PRSUAS
- CY United States
- DT Journal; Article
- FS 009 Surgery
 - 037 Drug Literature Index
- LA English
- SL English
- L14 ANSWER 21 OF 21 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 8
- AB Injury to the frontal or other facial nerve branches can result in an asymmetry that can be very distressful to both patient and surgeon. This is especially true following cosmetic procedures such as rhytidectomy. We propose a means to create temporary symmetry while awaiting the possible return of nerve function. Botulinum neurotoxin causes a muscle paralysis lasting for approximately 3 months, and it is well established as the preferred treatment for blepharospasm. A case is presented in which botulinum toxin type A was injected into the opposite functioning frontalis muscle of a patient with unilateral frontal nerve paralysis. The patient experienced satisfactory relief of the asymmetry caused by one-sided forehead wrinkling and brow elevation.

Botulinum toxin therapy should be considered for both

temporary and permanent facial asymmetries due to facial nerve paralysis as well as spasm.

AN 89203356 EMBASE

DN 1989203356

TI Botulinum toxin: A treatment for Facial asymmetry caused by facial nerve paralysis.

- AU Clark R.P.; Berris C.E.
- CS United States
- SO Plastic and Reconstructive Surgery, (1989) 84/2 (353-355). ISSN: 0032-1052 CODEN: PRSUAS
- CY United States
- DT Journal
- FS 034 Plastic Surgery
 - 037 Drug Literature Index
- LA English
- SL English